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2 November 2004

MILCOM 2004



Our Army At War - Relevant and Ready!

Making the Move to a Network Centric Army



Our Army At War - Relevant and Ready



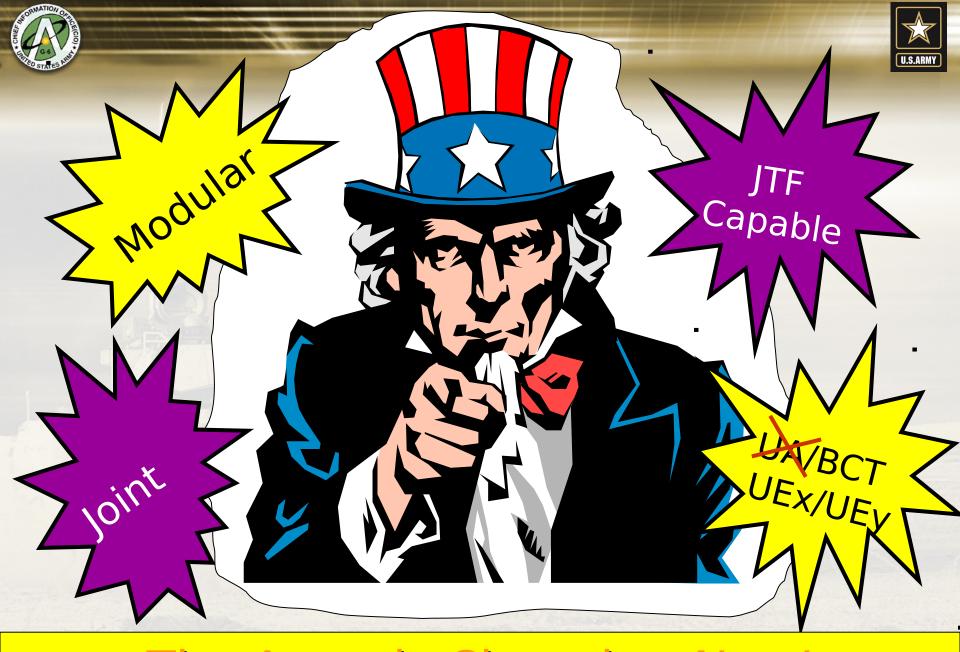
Immediate Progress



April to August 2004,

Our Army contracted and is now delivering a new Networking capability that will help <u>Transform</u> Deploying units into....

NetCentric, Modular, Unit's of Employment and Brigade Combat Teams!!



The Army is Changing Now!



Leveraging Commercial Capabilities

AP





Network

SIPR - Secret Internet Protocol Router Network

SVTC - Secure Video Teleconference

WIN-T - Warrior Information Network - Tactical





Voice Over Mideoly Satellite
Vosip Riving a tions
Comme Communications
Comme Communications

 Commercial satellite communications

 Wideband Gapfiller S . Advanced (WGS)

Secure Mobile Anti-Jam Reliable **Tactical Terminal** (SMART-T)

- Blue Force Tracking (BFT)
- Trojan Spirit
- Combat Service Support (CSS)

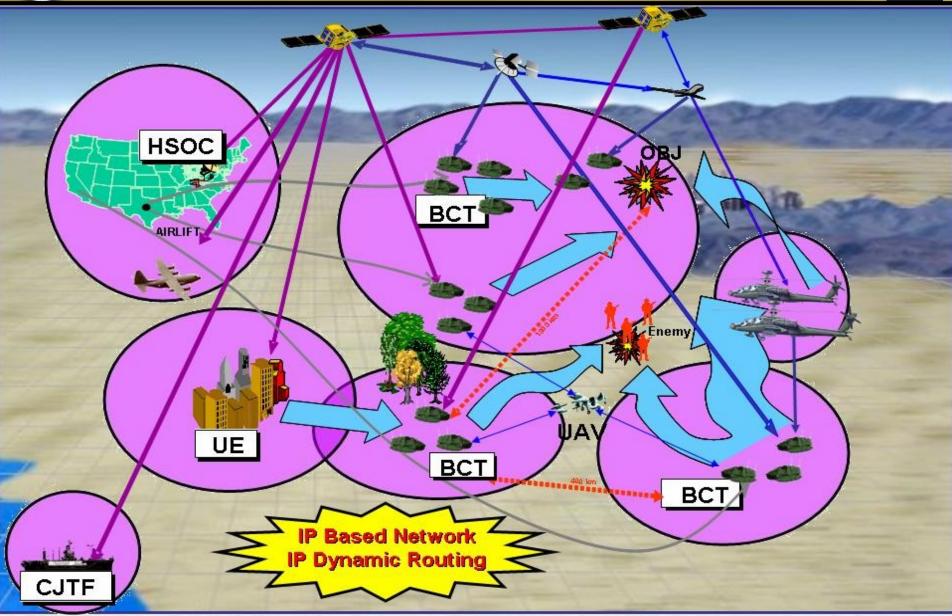
- **Extremely** High Frequency (EHF)
- Mobile User **Objective System** (MUOS)
- **Transformatio** nal Communicatio ns System (TCS)

- Flyaway Tri-**Band Satellite Terminals**



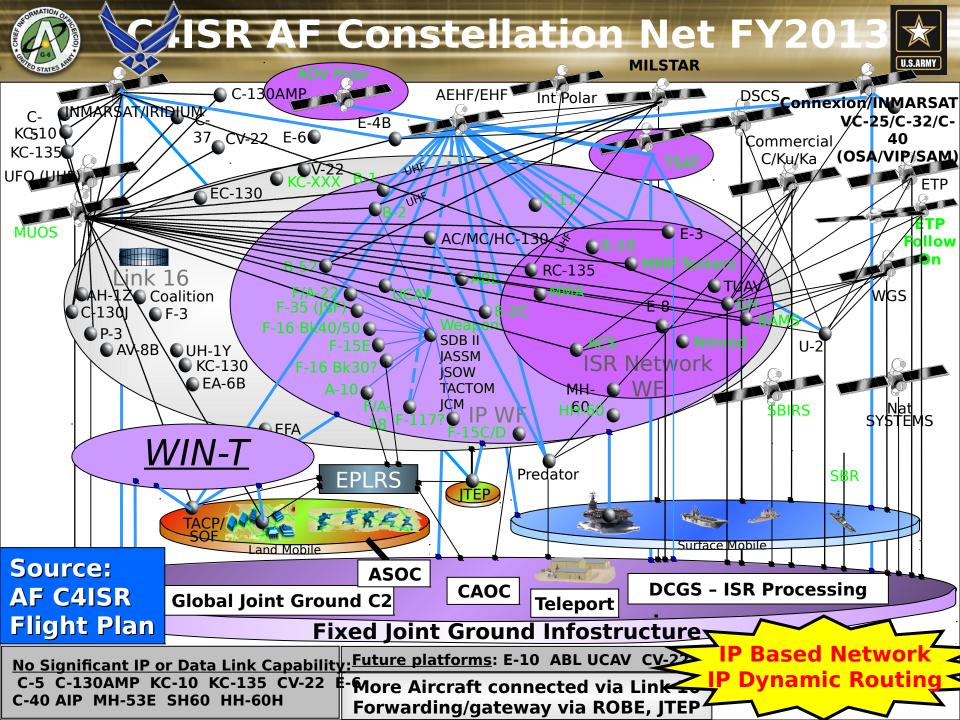
LandWarNet - FY20XX





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JNTC-S Network Components





DOD LOGISTICS IS UNCLASS

Commercial KU SATCOM



Commercial Lines GIG/DISN

Commercial SATCOM Facility

Delivered May 2004!

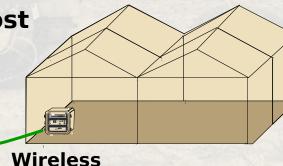
UEy/UEx/BCT (40 Ku VSATs 3 ID)

SARRS ULS SAMS Etc.

Wireless

INMARSAT Terminals used as part of AISS Business Network for contingency of

Battalion Command Post



SARRS ULS SAMS

JNTC - S1



CAISI

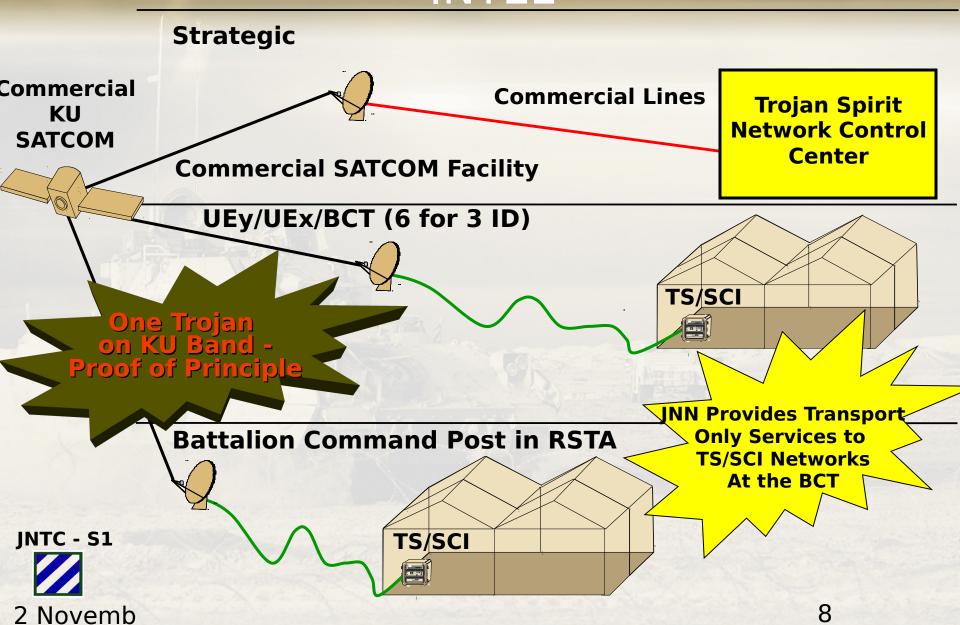
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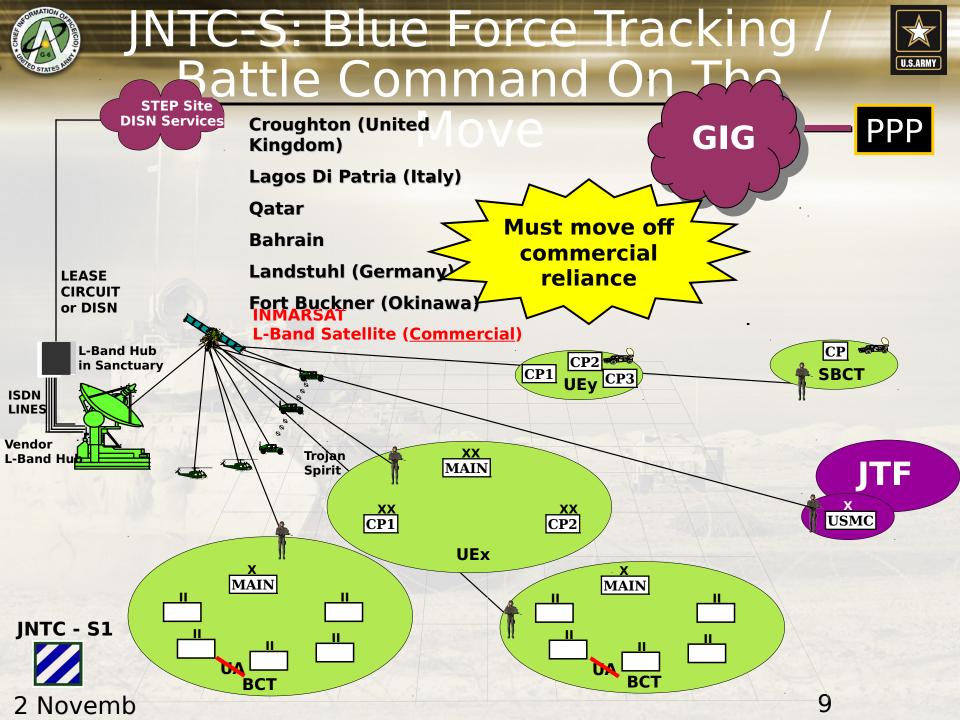
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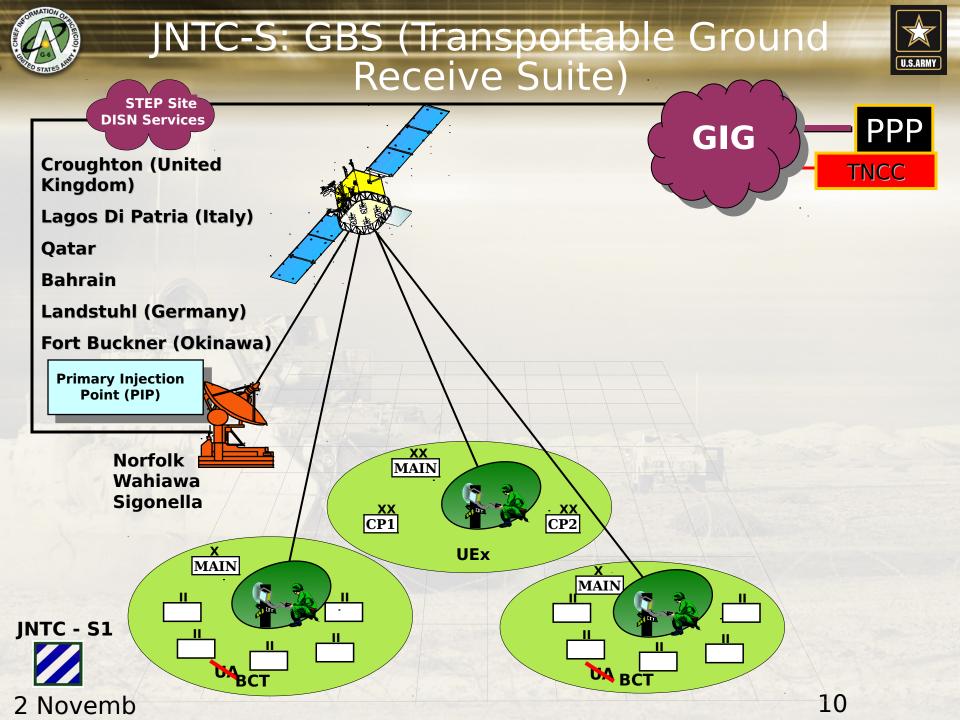


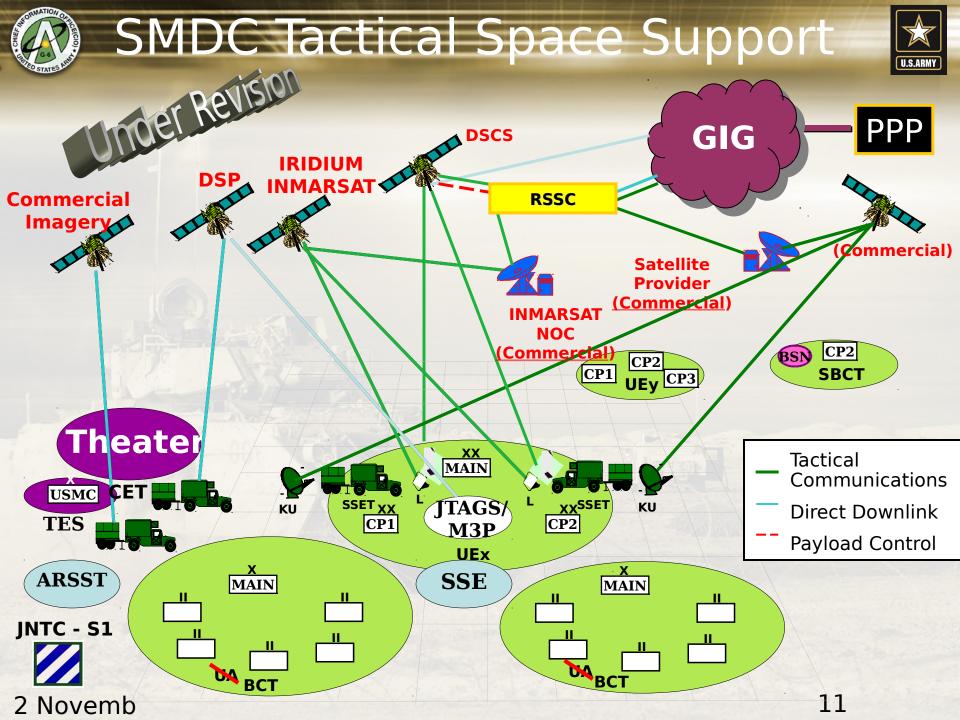
JNTC-S Network Components "INTFI"













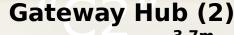
NTC-S Network





Maximum Bandwidth is dependent on architecture

TDMA 40 Mbps Shared



Provides up to 76 Mbps **Of Commercial SATCOM Bandwidth**

FDM 36 Mbps **Shared**

GIG/DISN



Spiral in:

UEX Brigade

Combat Teal on the

SMART-T

1.544 Mbps

Ka Band

Operations move

....Ka and Ku

Command Post

2 Mbps

LOS TRC190 V(1)

Wireless

LAN

Node (34)

7 Mbps SATCOM 1.024 Mbps 36 Mbps HCLOS TSC-85/93 **Red Voice**

SIPR

190 V(3)

2.4m

Ku

36 Mbps

Baseband

NÎP BIT (SIPR) Black Voice

LAN MGT

ISYSCON V4

(NIPR) (SIPR)

4 Mbps Shared SATCOM

LAN/Network

MGT

DPEM

(NIPR (Prinning)

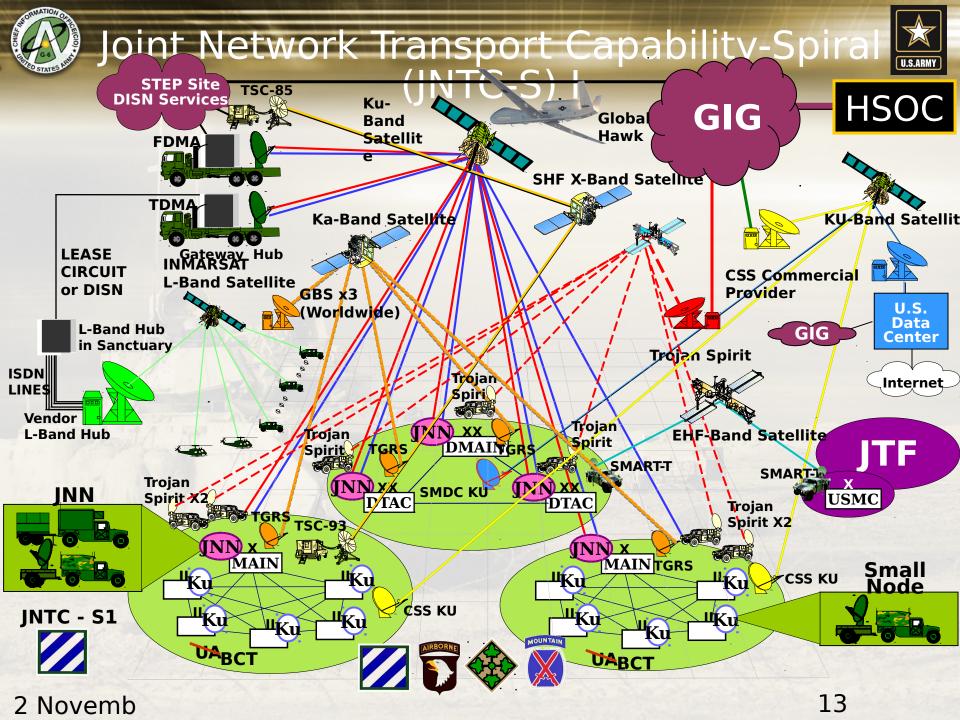
2 Mbps LOS

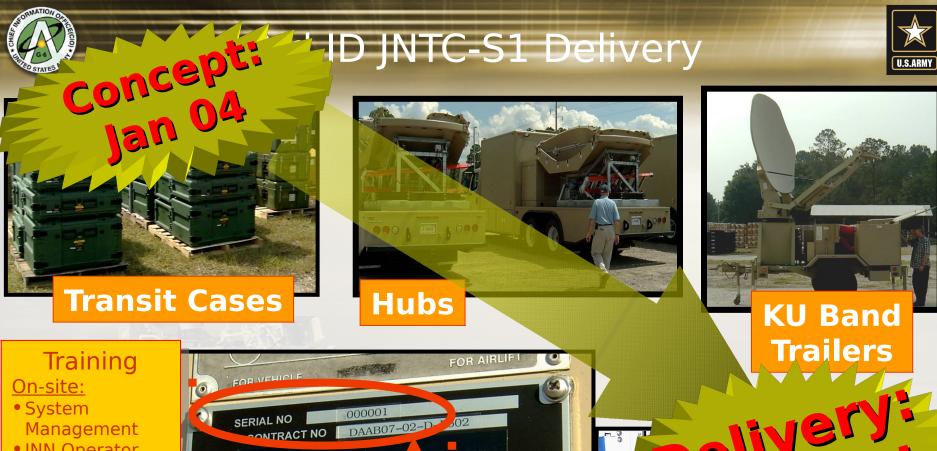
ISYSCON WAN



2 Novemb

12





- INN Operator
- Ku Trailer Operator

Schoolhouse:

• \$9 Million applied to future training



JNTC-S1 is being delivered TODAY!

2 Novemb 14





The Next St



Data to Decision Superior

Semantic Web



Data

DOD

Data

CIA

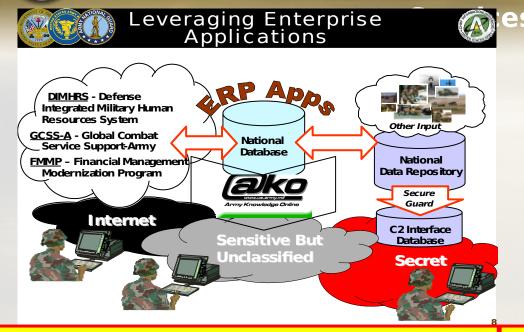
Actionable formationable

It's About **Net Centric Enterprise** BENREE, XML UDDI, SOAP, WSDL

16 2 Novemb

Army Knowledge Online Net-Centric Portal for Army Knowledge, Systems, and





Individual Soldier
Usage
Month of September
2004









<u>Supporting the Global War on</u> <u>Terrorism</u>

- Universal Secure Access to Information (NIPR/SIPR)
- Force Development & Protection thru Knowledge

Sharing and Collaboration:

- RC Mobilization / Training and Lessons Learned
- Arab Translators, USAR, NG, CID
- HUMINT Search Engine / J-2 Intel Updates

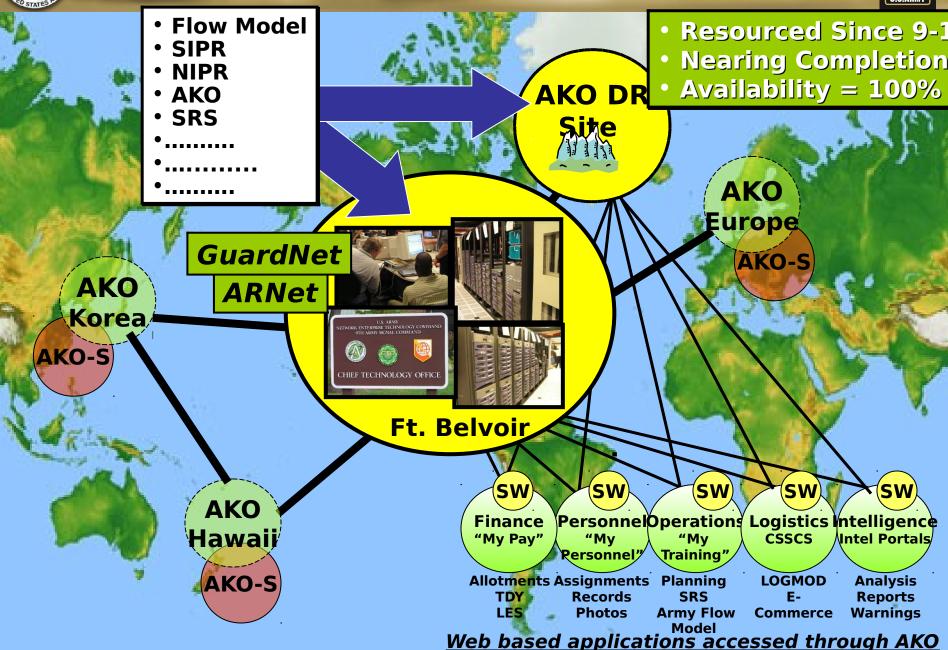
Supporting the Army's Business Areas

- Access to Business Systems (e.g., DIMHRS)
- Single Sign-On / Authentication to functional domain information
- Secure sites for Family Readiness
 Groups
- Self-Service Information 24x7: Medical Readiness Personnel Records



AKO - A Global Perspective







Take Away's



- The Army is fielding advanced "Joint Interdependent" networking capabilities NOW!
- Army and Joint networks moving to IP based, IP Dynamic Routing – Joint Architecture
- Leveraging Commercial Technology - JNTC preparing to transition to WIN-T - - FCS
- AKO is a Core Warfighting



